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 Tel: +55-11-2704922
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 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL:
<http://www.ludwig.org.br/scripts/gethtml12.pl?i=&t=1&C4-HT0652-150&400-143-h09&t3=2000-04-15&t4=1>
 Seq Primer: Puc 18 forward
 High quality sequence stop: 134.
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="adult"
 /clone_id="HR0652"
 /note="Organ: head; neck; Vector: pUC18; Site 1: SmaI;
 Site 2: SmaI; A mini-library was made by cloning products
 derived from ORESTES PCR (U.S. Letters Patent application
 No. 196,716 - Ludwig Institute for Cancer Research)
 Profiles into the PUC 18 vector. Reverse transcription of
 tissue mRNA and cDNA amplification were performed under
 low stringency conditions."

FEATURES
 source
 RESULT 3
 BM755441 LOCUS BWT55441 150 bp mRNA linear EST 04-MAR-2002
 DEFINITION K-BEST0033206 S11SN1 Homo sapiens cDNA clone S11SN1-13-B07 5',
 mRNA sequence.
 KEYWORDS Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 REFERENCE 1 (bases 1 to 150) GI:19085059
 AUTHORS Kim N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
 Oh, K.J., Cheong, J.E., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
 Kim, Y.S.
 TITLE 21C Frontier Korean EST Project 2001
 JOURNAL Unpublished (2002)
 COMMENT Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Boeun-dong Yusong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: Yongsung@mail.kribb.re.kr
 Plate: 13 row: B column: 07
 High quality sequence stop: 150.
 Location/Qualifiers
 1..150
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="S11SN1-13-B07"
 /sex="M"

FEATURES
 source
 RESULT 4
 AA579497/c LOCUS AA579497 151 bp mRNA linear EST 12-SEP-1997
 DEFINITION nfc3-e03-741 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:9119964, mRNA
 Sequence
 AA579497
 VERSION AA579497.1 GI:2357681
 KEYWORDS EST
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 KEYWORDS Chordata; Craniata; Vertebrata; Euteleostomi;
 ORGANISM Mammalia; Butheria; Primates; Cetarrini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 150)
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)
 JOURNAL CONTACT: Robert Straussberg, Ph.D.
 COMMENT Email: cgaps@mail.nih.gov
 Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuquai,
 M.D., Michael Emmert-Buck, M.D., Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 CDNA Library Preparation: David B. Krizman, Ph.D.
 CDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.
 Clone distribution: NCI CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LINL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 591 Std Error: 0.00
 Seq primer: -40m13 fwd. Err from Amersham
 High quality sequence stop: 145.
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:9115984"
 /sex="Male"
 /dev_stage="45 years old"

/lab_host="DH10B"
 /clone_lib="NCI CGAP Pr2"
 /note="Vector: PAMP10 Site 1: Not1; Site 2: EcoRI; 1st
 strand cDNA was primed with oligo(dT)17 on 50 ng of
 DNase-treated, total cellular RNA obtained from
 5,000-10,000 microdissected preneoplastic cells
 histologically-determined to be prostatic intraepithelial
 neoplasia 2 (PIN2) cells. Double-stranded cDNA was
 ligated to EcoRI adaptors. 5 cycles of PCR applied to the
 cDNA with an adaptor-specific primer, and the resulting
 PCR product subcloned into pAMP10 by the UDG-cloning
 method (Life Technologies). Average insert size is 500
 bp. NOTE: Not directionally cloned. This library was
 constructed by David Krizman."
ORIGIN

Query Match Score 75; DB 9; Length 151;
 Best Local Similarity 100.0%; Pred. No. 1.8e-10;
 Matches 75; Conservative 0; Mismatches 0; Gaps 0;
 Indels 0;

QY 1 ATGCCTCCGGAGGTTCACTCTACTTTAACAGTGAAATTGACCTGCCGTG 60
 Db 96 ATGGCTCCGGAGGTTCACTCTACTTTAACAGTGAAATTGACCTGCCGTG 37

RESULT 6
 BE164264/c
 LOCUS BB164264
 DEFINITION mRNA linear EST 21-JUN-2000
 ACCESSION BB164264
 VERSION 1
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Mammalia: Eutheria; Primates; Chordata; Craniata; Vertebrata; Euteleostomi;
 Bivalvia; Metazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Chordata; Craniata; Vertebrata; Euteleostomi;
 Nagai,M.A., da Silva, W. Jr., Verjovski-Almeida,S., Briones,M.R.,
 Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bajaj,G.S., Simpson,D.H.,
 Brunstein,A., de Oliveira,P.S., Bucher,P., Jongeneel,C.V.,
 O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
 Simpson,A.J.
 REFERENCE 1 (bases 1 to 151)
 AUTHORS Dias Neto,E., Garcia Correia,R., Verjovski-Almeida,S., Briones,M.R.,
 Nagai,M.A., da Silva, W. Jr., Zago,M.A., Bordin,S., Costa,P.F.,
 Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bajaj,G.S., Simpson,D.H.,
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 O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
 Simpson,A.J.
 TITLE Shotgun sequencing of the human transcriptome with ORF expressed
 sequence tags
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
 MEDLINE 20202663
 PUBMED 10737800
 COMMENT Contact: Simpson A.J.G.
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 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
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 Tel: +55-11-27049222
 Fax: +55-11-27070001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome
 Project. This entry can be seen in the following URL
 (<http://www.ludwig.org.br/scripts/gethtml2.pl?cl=&t2=CM1-BT0769-0805&t3=2000-05-08&t4=1>)
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 High quality sequence stop: 151.
 Location/Qualifiers 1..151
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /dev_stage="Adult"
 /clone_lib="PUC18"

FEATURES

source
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /dev_stage="Adult"
 /clone_lib="PUC18"

/note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2:
 SmaI; A mini-library was made by cloning products derived
 from ORESTES PCR (U.S. Letters Patent Application No.
 196,716 - Ludwig Institute for Cancer Research) profiles
 into the PUC 18 vector. Reverse transcription of tissue
 mRNA and cDNA amplification were performed under low
 stringency conditions."

Query Match Score 75; DB 10; Length 151;
 Best Local Similarity 100.0%; Pred. No. 1.8e-30;
 Matches 75; Conservative 0; Mismatches 0; Gaps 0;
 Indels 0;

QY 1 ATGGCTCCAGGGGTTCAGCTCTCTACTTTAACAGTGAAATTGACCTGCCGTG 60
 Db 130 ATGGCTCCAGGGGTTCAGCTCTCTACTTTAACAGTGAAATTGACCTGCCGTG 71

RESULT 7
 BE164264
 LOCUS BB164264
 DEFINITION mRNA linear EST 21-JUN-2000
 ACCESSION BB164264
 VERSION 1
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Mammalia: Eutheria; Primates; Chordata; Craniata; Vertebrata; Euteleostomi;
 Bivalvia; Metazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Chordata; Craniata; Vertebrata; Euteleostomi;
 Nagai,M.A., da Silva, W. Jr., Verjovski-Almeida,S., Briones,M.R.,
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 O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
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 Ludwig Institute for Cancer Research
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 Seq. Primer: Puc 18 forward
 High quality sequence stop: 156.
 Location/Qualifiers 1..156
 /organism="Homo sapiens"
 /mol_type="mRNA"
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 /clone_lib="PUC18"

FEATURES

source
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /dev_stage="Adult"
 /clone_lib="PUC18"

/note="Organ: head neck; Vector: puc18; Site 1: SmaI;
 Site 2: SmaI; A mini-library was made by cloning products
 derived from ORESTES PCR (U.S. Letters Patent Application
 No. 196,716 - Ludwig Institute for Cancer Research)
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 tissue mRNA and cDNA amplification were performed under